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(71) Applicant (for all designated States except US): **UNIVERSITA' DI PISA** [IT/IT]; Lungarno Pacinotti, 43/44, I-56126 Pisa (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CIARDELLI, Francesco** [IT/IT]; Via Nino Bixio, 17, I-56126 Pisa (IT). **PASSAGLIA, Elisa** [IT/IT]; Via di Goletta, 8, I-56100 Pisa (IT). **COLAI, Serena** [IT/IT]; Via Boccherini, 22/A, I-56010 Pontasserchio (IT).

(74) Agents: **GERBINO, Angelo** et al.; Jacobacci & Partners SpA, Corso Regio Parco 27, I-10152 Torino (IT).

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(54) Title: A PROCESS OF CONTROLLED RADICAL GRAFTING OF A POLYOLEFIN

(57) Abstract: The present invention relates to a controlled radical grafting process of a polyolefin derived from monomeric units including an olefins. This process comprises the reaction of the polyolefin and at least one radical reaction initiator with a grafting system which comprises at least one grafting compound having an electron donator heterocyclic aromatic ring conjugated to at least one -HC=CRIR<sub>2</sub> group in which at least one of R<sub>1</sub> and R<sub>2</sub> is an electron acceptor functional be performed continuously in an extruder or discontinuously in a mechanical mixer.

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